Wednesday, 12/13/2006 2:47:44 PM Kim Johnston **Process Sheet** : TUBE ASSEMBLY Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** Job Number : 29934 : 11924 **Estimate Number** : LIA : D2003103 Part Number P.O. Number : UNDER REVIEW CB 06.17.13 S.O. No. : HVX : 12/13/2006 **Drawing Number** This Issue Prsht Rev. **Project Number** : N/A SEE NOTE ON DWG : SMALL /MED FAB : B Type **Drawing Revision** First Issue AIL: Material **Previous Run** : 1/10/2007 Qty: 5 Um: Each **Due Date** Written By Checked & Approved By KJ/RF Comment Reformat Additional Product Job Number: Description: **Machine Or Operation:** Seq. #: M606, 160375W304TUBING 1.0 Comment: Qty.: 1.0500 f(s)/Unit Total: 5.2500 f(s) Cut tube Ø 0.375" x 0.035" wall as per template D2003-103T1 (12.00" long) Material: 6061-T6 WW-T-600/6 (M6061T6T0:375W.035) FF 07-01-02 M 17666x3 Batch: M17931 ≈ 2 M26506 2.0 Comment: Qty.: 1.0828 f(s)/Unit Cut: Qty Part Number Description Batch 7521 **Heat Sleeve** M2650-6 07-01-11 D2182 3.0 Heat Shrink Comment: Qty.: Total: 1.8750 f(s) 0.3750 f(s)/Unit Heat Shrink Pick: **Qty Part Number** Description Batch 1 D2182-045 Heat shrink 07-01-1 SMALL FAB 1 SMALL & MEDIUM FAB RESOURCE 1 4.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Cut 12.38" long Heat sleeve as per Dwg D2003 & heat shrink Form tube as per template D2003-103T2 06-01-09

Page 1

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W/O:			WC	RK ORDER CHANG	ES				
DATE	STEP	PR	PROCEDURE CHANGE						Approval QC Inspector
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NCR:			WORK ORD	ER NON-CONFORMA	NCE (N	ICR)			
		Description of NC		Corrective Action Section	on B	Veri	ication	Approval	Approval
DATE	STEP	STEP Section A		Action Description Chief Eng			ction C	Chief Eng	QC Inspector
	1								

NOTE: Date & initial all entries

Date: Wednesday, 12/13/2006 2:47:45 PM Useî: Kim Johnston **Process Sheet** Drawing Name: TUBE ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 29934 Part Number: D2003103 Job Number: Seq. #: **Machine Or Operation:** Description: INSPECT WORK TO CURRENT STEP QC5 5.0 Comment: INSPECT WORK TO CURRENT STEP AN8186D Nut 6.0 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Comment: Qty.: Nut Pick: Qty Part Number Description Batch m17651 AN818-6D Nut MS208196D 7.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Sleeve Pick: Qty Part Number Description MS20819-6D Sleeve SMALL FAB Comment: SMALL & MEDIUM FAB RESOURCE 1 FF 07-01-02 Assemble as per Dwg D2003 Install Red decal and heat shrink as per PPP D2003-103 INSPECT WORK TO CURRENT STEP 9.0 Comment: INSPECT WORK TO CURRENT STEP 10.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 11.0 Comment: FINAL INSPECTION/W/O RELEASE 0701.12 Job Completion

Form: rprocess

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Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
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Part No: _	PAR #:	Fault Category:	NCR: Yes No DQA:	Date: <u>07/01/1</u>
			QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)												
	. 4-1	Description of NC		Corrective Action Section B		Verification	Approval Chief Eng	Approval						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		QC Inspector						
^{0,2} 01 11	6.0	Heat Sleeve was cut to short	\ \ /	Take Heat Sleeve off and Heat Shrink Replace them	07/01/ m.F.	07/01/"	SIUN	07/01/11						
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NOTE: Date & initial all entries





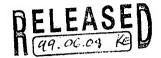
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And the state of t	DATEV	Manager Manage	TITLE SCALE							
	99.06.08		206 CABIN HEATER TUBE ASSEMBLIES NTS							
	Α	90.04.09	NEW ISSUE							
DELEASER	В	99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)							
NOTE: FLAT LENGTHS MAY BE UNDER REVIEW CB SHOP COPY RETURN TO										
	6.08.21 CB	1 cmths wire								

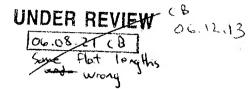
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		HEATSLEEVE LENGTH	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT		MATERIAL4/8/7	SPEC
P/N	TEMPLATE	I	0 -							DESC.	MATERIAL COST TO 035 W	WW-T-700/6
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W 6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44			L		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38	L		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2	<u> </u>		TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2			<u> </u>	<u> </u>	TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2		<u> </u>	ļ		TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2			ļ	<u> </u>	TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2			ļ <u> </u>		TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2				<u> </u>	TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2			ļ		TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2				<u></u>	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-077	T2003-077	N/A	6.25			ļ		1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00	<u> </u>				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60		 			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2	ļ		TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625	<u> </u>		2	2		ļ	TUBE ASS'Y	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-116	T2003-116	4.0						ļ		HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0		<u> </u>				ļ	<u> </u>	HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0				<u> </u>		ļ	 	HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0							<u> </u>	HEATSLEEVE	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	0001-10 0.373 OD X 0.033 W	1111111000
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Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

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